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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,800	11/14/2003	Yukiyoshi Sunada	CH2893	4196
	7590 05/31/200 DE NEMOURS AND (EXAM	INER
LEGAL PATENT RECORDS CENTER			MIGGINS, MICHAEL C	
BARLEY MIL 4417 LANCAS	L PLAZA 25/1128 STER PIKE		ART UNIT	PAPER NUMBER
WILMINGTO	N, DE 19805	1772		
			MAIL DATE	DELIVERY MODE
			05/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/713,800	SUNADA ET AL.		
		Examiner	Art Unit		
		Michael C. Miggins	1772		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence address		
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 28 Fe	ebruary 2007.			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1,3,4 and 7-16 is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1, 3-4, 7-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	·		
Applicat	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority (under 35 U.S.C. § 119		·		
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen	e of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)		
2) Notice 3) Information	the of Neierlehoes Cited (FTO-092) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/28/07 has been entered.

REJECTIONS WITHDRAWN

2. There are no rejections withdrawn.

REJECTIONS REPEATED

3. The 103(a) rejections set forth in the final rejection of 11/3/06, pages 2-4, paragraphs 3-4 are repeated for the reasons of record. Applicant has added the limitation of a nozzle to claim 1. This limitation is disclosed in Diaz (column 1, lines 28-65).

NEW REJECTIONS

4. There are no new rejections.

ANSWERS TO APPLICANT'S ARGUMENTS

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5. Applicant's arguments of 2/28/07 have been carefully considered but are deemed unpersuasive.

Applicant has argued that the properties of heat resistance and water repellency do not ensure that the coating would be durable and not hinder performance for a nozzle used in a printer for ejecting ink. However, such properties are obtained upon the combination of Diaz and Iwato since Diaz discloses a nozzle comprising fluorocarbon silane and Iwato discloses applicants exact coating. Furthermore, Diaz discloses that fluorocarbon films have excellent wear resistance (column 1, lines 50-55)

Applicant has argued that there is no motivation to combine Diaz and Iwato.

However, heat resistance and water repellency are desirable properties for printing and applicant has not shown that heat resistance and water repellency are not desirable properties for printing. Applicant uses the claimed coating for alkaline and abrasive resistance.

In response to applicant's argument that the purpose of applicant's coating is for alkaline and abrasive resistance, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

Applicant asserts unexpected results. However, applicant has provided no clear and convincing evidence comparing the instant invention to that of Diaz or, more importantly, lwato. Especially since lwato discloses applicant's exact coating.

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With regard to Albinson, Griffen and Nakagawa none of the references were used in the rejection and none of the references discuss or disclose the specific coating of lwato.

Applicant has argued that Iwato does not disclose a coated conduit. However, the coated conduit is disclosed by Diaz and the references are analogous because both disclose fluorosilane coatings and applicant cited both references as being related to the instant invention.

Applicant has argued that the coatings of Diaz are not chemically very similar to what is claimed by applicant. However, Iwato discloses applicant's exact silane fluorocarbon coating and Diaz discloses that coating of a nozzle with silane fluorocarbons is known.

Applicant has argued that the process coating in Diaz is different from that of applicant. However, the method of coating is not germane to the patentability of a product in a product claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Miggins whose telephone number is 571-272-1494. The examiner can normally be reached on 1:00-10:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Y. Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Miggins Primary Examiner

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MCM May 29, 2007